

## M 5.8, 70 km WSW of Ro Grande, Panama

Origin Time: 2020-07-15 21:39:40 UTC (Wed 16:39:40 local)

Location: 7.4708° N 81.9220° W Depth: 5.7 km

Created: 1 day, 0 hours after earthquake

### Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



### Estimated Economic Losses

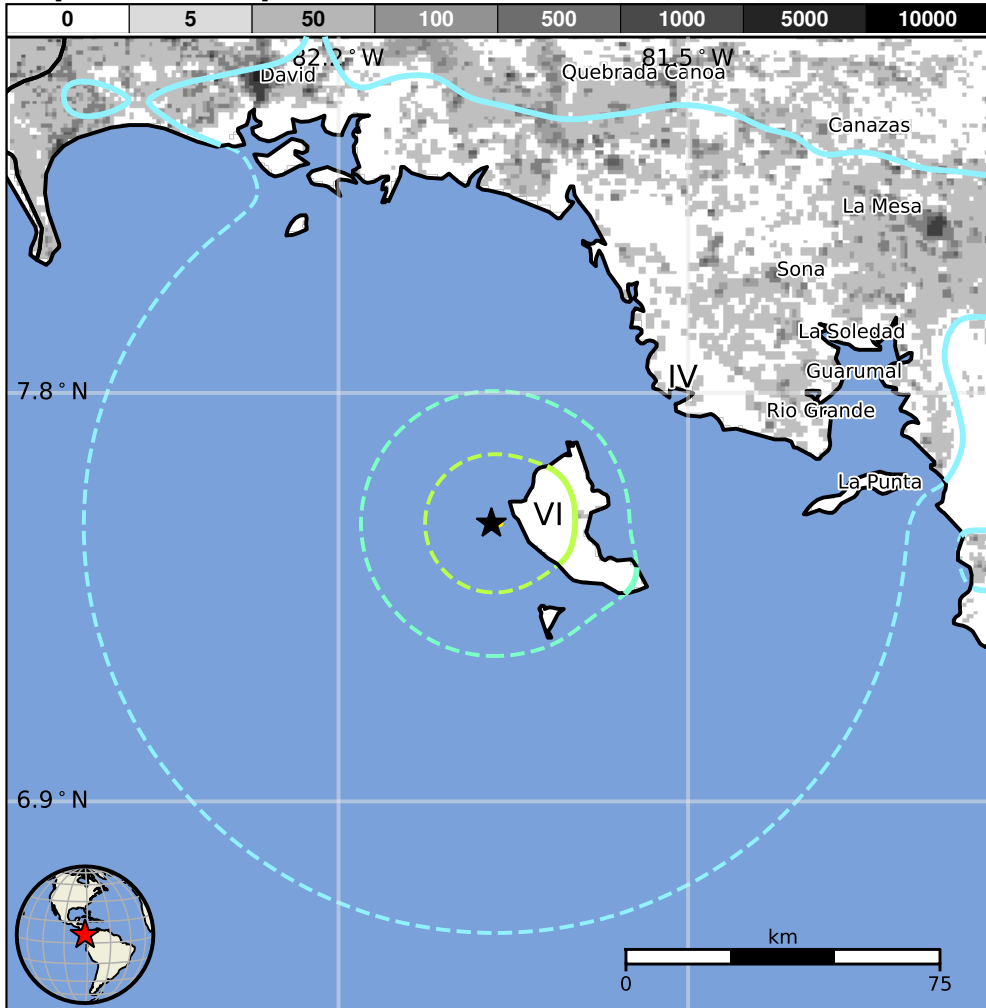


### Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	189k*	435k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

### Population Exposure



### Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and informal (metal, timber, GI etc.) construction.

### Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1993-07-10	320	5.8	VII(45k)	1
1990-12-22	377	5.9	VIII(188k)	1
1991-04-22	275	7.6	VII(213k)	75

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

### Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Puerto Vidal	<1k
IV	Santa Cruz	<1k
IV	Guarumal	<1k
IV	San Juan	<1k
IV	Remedios	1k
IV	El Puerto	<1k
IV	Santiago de Veraguas	45k
IV	David	83k
III	Puerto Armuelles	19k
III	Buabidi	<1k
III	La Concepcion	17k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000apd0#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000apd0